Carbon Dioxide Titrets® Kit

K-1910: 10 - 100 ppm K-1920: 100 - 1000 ppm K-1925: 250 - 2500 ppm

Test Procedure

- 1. Fill the sample cup to the 20 mL mark with the sample to be tested (fig. 1).
- 2. Add 2 drops of S-1900 Activator Solution (fig. 2). Stir to mix the contents of the cup.

NOTE: If the sample turns pink, carbon dioxide is 0 ppm. There is no need to continue.

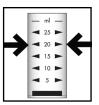
- 3. Slide the open end of the valve assembly over the tapered tip of the Titret so that it fits snugly to the white reference line (fig.3).
- 4. Snap the tip of the ampoule at the black snap ring (fig. 4).

NOTE: When the tip is snapped, the flexible tubing will remain in place on the neck of the ampoule.

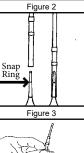
5. Lift the control bar and insert the Titret assembly into the Titrettor (fig. 5).

NOTE: The rigid sample pipe will extend approximately 1.5 inches beyond the body of the Titrettor.

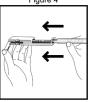
- 6. Hold the Titrettor with the sample pipe in the sample. Press the control bar firmly, but briefly, to pull in a small amount of sample (fig. 6). The contents will turn PINK.
 - NOTE: NEVER press the control bar unless the sample pipe is in the sample.







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- 7. Press the control bar again to draw another small amount of sample into the ampoule (fig. 6).
- 8. Rock the entire assembly to mix the contents of the ampoule. Watch for a color change from PINK to COLORLESS.
- 9. Repeat steps 7 and 8 until a permanent color change occurs.
- 10.When the color of the liquid in the ampoule changes to COLORLESS, remove the ampoule from the Titrettor. Hold the ampoule. tip pointed upward, and read the scale opposite the liquid level (fig. 7). Results are expressed in ppm (mg/Liter) carbon dioxide (CO₂).

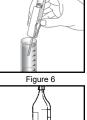


Figure 7

K-1920 only: multiply scale unit by 100

Interpretation of Test Results

If the contents of the ampoule do not turn pink in Step # 6, the carbon dioxide concentration in the sample is above the test range. If the ampoule fills completely and the contents do not turn colorless. the carbon dioxide concentration is below the test range.

Test Method

The Carbon Dioxide Titrets®¹ test kit employs a caustic titrant with pH indicator method.^{2,3} Sulfide interferes with this test.

1. Titrets is a registered trademark of AguaPhoenix Scientific, LLC U.S. Patent No. 4.332.769 2. APHA Standard Methods. 23rd ed., Method 4500-CO, C - 2004 3. ASTM D 513 - 82, Total and Dissolved Carbon Dioxide In Water, Test Method E

Safety Information

Read SDS before performing this test procedure. Wear safety glasses and protective gloves.

